

Lab Report Form

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Course: Advanced Chemistry

Title of Lab Experiment: Colloidal Formation

Purpose: To form colloidal particles with soap

Materials:

- Liquid dish soap
- Vegetable oil
- Dropper
- Two bowls
- Water
- Safety goggles

Procedure:

1. Fill the two bowls halfway with water
2. In one bowl add a few drops of dish soap to the center but do not mix
3. Fill the dropper with vegetable oil
4. Add a few drops of vegetable oil to the bowl with NO soap and observe what happens
5. Add a few drops of vegetable oil to the bowl with soap and observe what happens
6. Add a few drops of soap to the bowl that has NO soap and observe what happens
7. Clean everything up and put it all away

Data:

Bowl 1:

Contains water and no soap

Bowl 2:

Contains water and soap

Results:

Bowl 1:

After adding vegetable oil, the oil originally stays in a “bubble” but immediately pops after
After adding soap to the bowl, the oil becomes a “bubble” instead of lying in a pool on top of the water.

Bowl 2:

After adding vegetable oil, the oil stays in its “bubble” form

Conclusions:

The experiment helps mimic the appearance of colloidal particles.

References:

Advanced Chemistry in Creation 2nd Edition

